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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/590,814	9/590,814 06/09/2000		Nori Yoshihara	10089/11	3180
26646	7590	01/05/2004		EXAMINER	
KENYON ONE BROA		ON	CHEUNG, WILLIAM K		
NEW YORK, NY 10004				ART UNIT	PAPER NUMBER
				1713	

DATE MAILED: 01/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

• • • • • • • • • • • • • • • • • • • •							
	Application N .	Applicant(s)					
	09/590,814	YOSHIHARA ET AL.					
Office Action Summary	Examiner	Art Unit					
	William K Cheung	1713					
The MAILING DATE f this communication app Period for Reply	ears on the c ver sheet with the d	correspond nce address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	16(a). In no event, however, may a reply be tire within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed /s will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 17 Au	<u>igust 2000</u> .	•					
2a) ☐ This action is FINAL . 2b) ☒ This a	action is non-final.						
3) Since this application is in condition for allowan closed in accordance with the practice under E	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
 4) Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 							
Application Papers							
9) The specification is objected to by the Examiner							
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the	Examiner.					
Applicant may not request that any objection to the o	* * *	• •					
Replacement drawing sheet(s) including the correcti		• •					
11) The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. §§ 119 and 120							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of 13) Acknowledgment is made of a claim for domestic since a specific reference was included in the firs 37 CFR 1.78. a) The translation of the foreign language prov 14) Acknowledgment is made of a claim for domestic reference was included in the first sentence of the	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)). of the certified copies not received priority under 35 U.S.C. § 119(at sentence of the specification or existence of the specification or existence of the specification application has been received priority under 35 U.S.C. §§ 120	ion No ed in this National Stage ed. e) (to a provisional application) r in an Application Data Sheet. eived. and/or 121 since a specific					
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3.	5) Notice of Informal P	(PTO-413) Paper No(s) Patent Application (PTO-152)					

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 2. Claims 1, 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Segal (US 3,769,260) in view of Yoshihara et al. (US 5,399,605).

The invention of claims 1, 3 relates to **a polyester resin composition** for engine peripheral parts, the resin composition comprising:

(A) 60-92% by weight of at least one polymer selected from the group consisting of polyethylene terephthalate and an thylene terephthalate copolymer;

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(B) 5-15% by weight of talc; and

(C) 3-25% by weight of an olefin polymer,

wherein a molded article produced from the resin composition has a flexural strain at break of 3.5% or higher and a deflection temperature under load of 180°C or higher.

Segal (col. 10, claims 1-3) discloses a polyesters resin composition comprising 25 to 95 percent of polyethylene terephthalate, 0.5 to 30 percent of polyolefin, and 2 to 70 percent of inorganic reinforcement.

The difference between the invention of claims 1, 3 and the disclosure to Segal is that Segal is silent on a composition comprising a 5-15% by weight of talc.

Yoshihara et al. (col. 5-6, Table 1-2) disclose compositions comprising polyethylene terephthalate with talc. Further, Yoshihara et al. (col. 4, line 30-34) disclose that 0.5 to 20 parts by weight of talc, per 100 parts by-weight of the total weight of the polyester resin could be used. Motivated by the expectation of success of reducing post-shrikages (col. 6, line 22-29), it would have been obvious to one of ordinary skill in art to incorporate 0.5 to 20 parts by weight of talc into the composition of Segal to obtain the invention of claims 1, 3. Although the claimed range of talc is narrower as compared to the disclosed range of 0.5 to 20 parts, however, applicants

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must recognize that the claimed weight% range is entirely covered by the amount of talc taught by Yoshihara et al.

3. Claims 2, 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Segal (US 3,769,260).

The invention of claims 2, 4 relates to **a polyesters resin composition** for engine peripheral parts, the resin composition comprising:

- (A) 100 parts by weight of at least one polymer selected from the group consisting of polyethylene terephthalate and an ethylene terephthalate copolymer;
- (B) 5-70 parts by weight of an inorganic reinforcement material;
- (C) 2-20 parts by weight of an ethylene polymer having a melt flow rate of 5 or lower; and
- (D) 3-20 parts by weight of a propylene polymer having a melt flow rate of 5-100, wherein a molded article produced from the resin composition has a flexural strain at break of 3.5% or higher and a deflection temperature under load of 180°C or higher.

Segal (col. 10, claims 1-3) discloses a polyesters resin composition comprising 25 to 95 percent of polyethylene terephthalate, 0.5 to 30 percent of polyolefin, and 2 to 70 percent of inorganic reinforcement.

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The difference between the invention of claims 2, 4 and the disclosure to Segal is that Segal is silent on a composition comprising a propylene polymer having a melt flow rate of 5-100.

Since Segal (col. 4, line 48) discloses that the polyolefin of Segal's polyester resin composition can be a polypropylene, it would have been obvious to one of ordinary skill in art to incorporate the a polypropylene into the polyester composition of Segal to obtain the invention of claims 2, 4. Although Segal is silent that the propylene polymer having a melt flow rate of 5-10, in view of the broad melt flow rate range of 5-10 being claimed, the examiner has a reasonable basis to believe that the claimed melt flow rate range is inherently possessed by the polypropylene of Segal.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William K Cheung whose telephone number is (703) 305-0392. The examiner can normally be reached on Monday-Friday 9:00AM to 2:00PM; 4:00PM to 8:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David WU can be reached on (703) 308-2450. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-5885.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

William K. Cheung

Patent Examiner

December 21, 2003